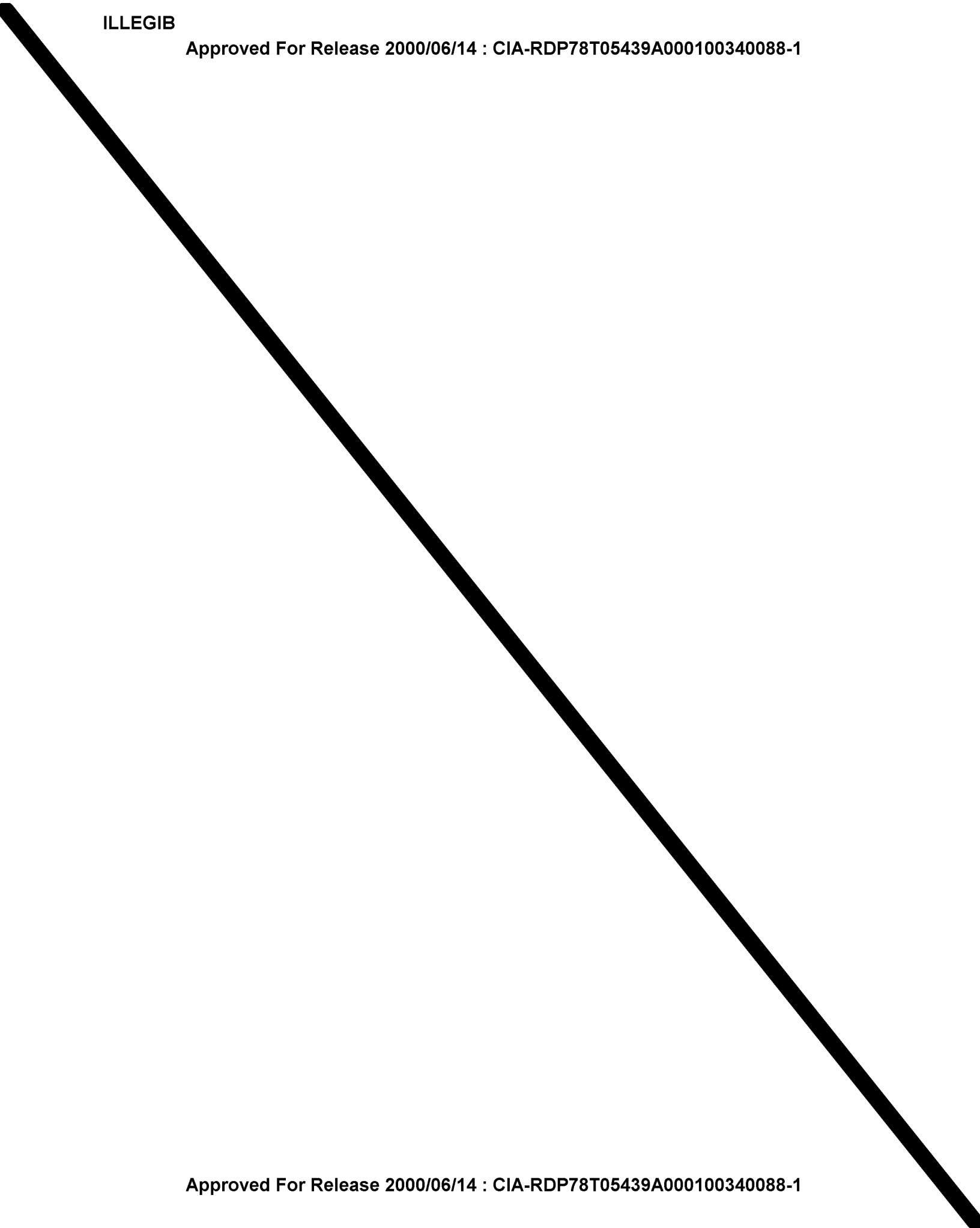


25X1C

~~SECRET~~

(DOWNGRADING PROHIBITED)

JOINT PHOTOGRAPHIC INTELLIGENCE REPORT

AMUR SHIPYARD 199
KOMSOMOLSK, USSR

PIC/JR-1001/61
January 1961

Published and Disseminated by
CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE CENTER

25X1C

~~SECRET~~

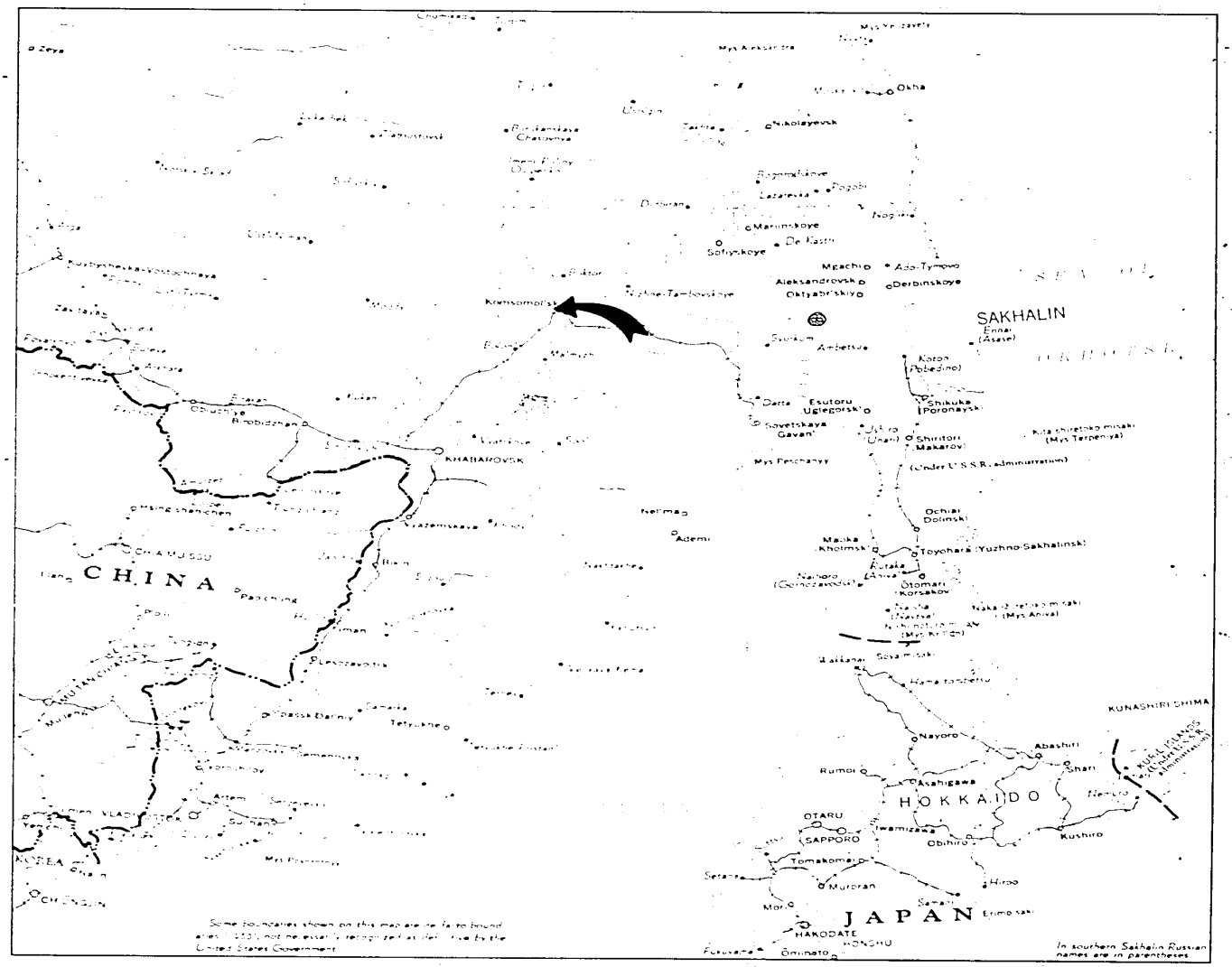
(DOWNGRADING PROHIBITED)

PIC/JR-1001/61

PREFACE

This joint Navy-CIA report has been prepared to satisfy Navy and CIA requirements requesting the following information concerning Amur Shipyard 199, Komsomolsk, USSR: [redacted]

25X1D [redacted] 25X1D



U.S.S.R.

VLADIVOSTOK-NIKOLAYEVSK AREA

Selected railroad Selected road Selected trail

CIA/PIC DG-3006

SUMMARY

Only one submarine (possibly SHCH-IV type) was observed in the shipyard. It does not appear to be configured for guided missile activity.

No naval surface vessels were observed which were undergoing configuration for guided missile activity.

No heavily secured separate building facilities or isolated fitting-out piers were observed [redacted]

25X1D 25X1D

LOCATION AND SIGNIFICANCE

Amur Shipyard 199 (50-33N 137-02E) is located on the west bank of the Amur River, in the central-southeast section of the city of Komsomolsk. The city is situated in the Khabarovskiy Kray, approximately 343 nautical miles above the mouth of the Amur River, and 164 statute miles northeast of Khabarovsk.

Amur Shipyard 199 is the principal shipbuilding yard for the Soviet Pacific Fleet and the largest shipbuilding center in the eastern USSR. The design and arrangement of facilities indicate greater emphasis on ship construction than on repair. Fitting-out may take place here or at the naval yard at Vladivostok. Kirov type CL's ([redacted] have been constructed in the largest covered building dock. Submarines, destroyers and merchant vessels of comparable dimensions can be built in all three covered building docks. 25X1D

SUBMARINE ACTIVITY

Only one submarine was observed in the shipyard. It is located between two linear groups of lift pontoons in the launching basin approximately 780 feet southeast of the largest covered building dock (see Figures

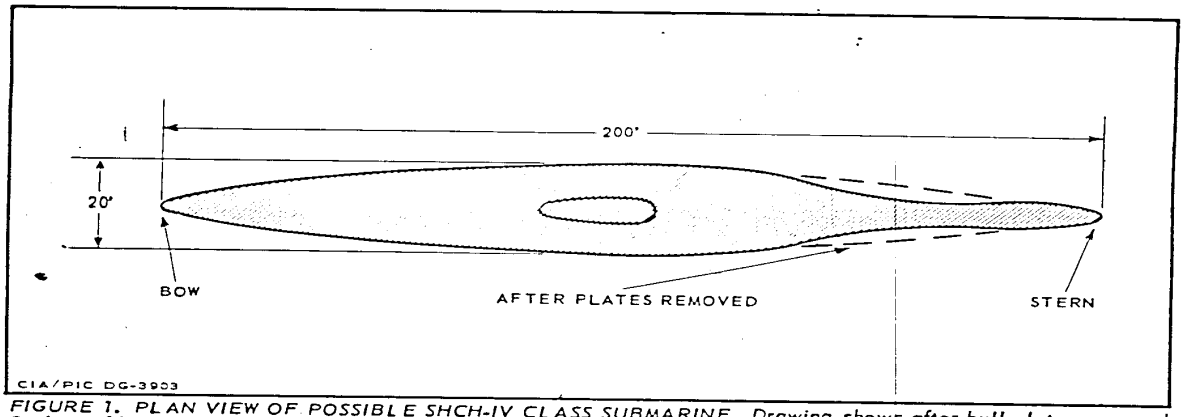


FIGURE 1. PLAN VIEW OF POSSIBLE SHCH-IV CLASS SUBMARINE. Drawing shows after hull plates removed. Outline of hull and conning tower are approximate.

2 and 3). The submarine appears to rest on the floor of the basin, between the pontoons. It has an overall length of 200 feet, and a maximum beam of 20 feet. From the above dimensions and the shape and midship position of the conning tower, the submarine appears to resemble the SHCH-IV type. From the configuration of the hull (plan view, Figure 1), it appears that some of the plates forming the after part of the pressure hull have been removed. This is the closest approach to a "peculiar (hull) shape' shown by the submarine. [redacted]

25X1B 25X1B

SURFACE SHIP ACTIVITY

No naval surface vessels were observed which appear to be under construction or conversion for guided missile launching.

The following surface vessels were observed at the shipyard at the

PIC/JR-1001/64

FIGURE 2. ANUR SHIPYARD 199, KOMSOMOLSK, USSR

time of photography:

Merchant Ships

One dry cargo, 180 feet long
Two ore carriers, each 320 feet long
Two tankers, each 265 feet long

River Craft

Four railroad ferries, each 310 feet long
Three passenger ferries, 170 feet, 140 feet, and 115 feet long
Two side-wheelers, 180 feet and 170 feet
One stern-well, bucket-type dredge, 300 feet long
Five tugs, 220 feet, 170 feet, 160 feet, 160 feet, and 130 feet long
Eleven self-propelled barges, one 190 feet, and ten 140 feet long
Six towed barges, two 200 feet, one 190 feet, and three 170 feet long.
One probable transporter drydock, 360 by 55 feet
Fifteen to twenty small boats

Harbor Equipment

Five floating jib cranes
One floating double A-frame, cantilever boom crane, reach 60 feet

SHIPYARD FACILITIES

Amur Shipyard 199 covers approximately 315 acres. All production, repair, and storage-areas are well served by rail spurs. The shipyard is well developed and has a great degree of self-sufficiency, with production restricted only by its physical location and weather conditions. Vessels can be launched only during the six-month ice-free period from May through October, with navigation on the Amur River limited to a period of about 150 days. A minimum depth of 16 feet is maintained in the Amur River by dredging. Pontoons are required to move vessels over shoals

and sand bars. During winter months, vessels may be repaired on the floor of the launching basin.

For purposes of discussion the shipyard may be divided into the following functional areas. These areas and the major components of each are identified on Figure 3 and described in the accompanying key to annotations.

A. Administration.
B. Storage (open and covered).
C. Workshops (includes the production of most ship components, with the exception of propulsion and heavy machinery).
D. Shipbuilding (includes three large covered shipbuilding docks, launching basin, watertight gate, and pump house).
E. Filtration (probably supplies treated water to ships and to the plant boilerhouse).
F. Ship Repair and Fitting (includes port administration area, an 800-foot quay, five short piers, a ship basin, a channel to the Amur River, and a breakwater).

KEY TO ANNOTATIONS

A. ADMINISTRATION

1. Administration building, 370 by 65 feet.

B. STORAGE

2. Storage area, approximately 1,700 by 350 feet, containing eight storage buildings; two 190 by 85 feet, two 150 by 40 feet, and one each 190 by 75 feet, 190 by 65 feet, 190 by 40 feet (under construction), and 160 by 40 feet. Rail served.
3. Open storage area, approximately 2,000 by 1,100 feet, served by three rail spurs.

C. WORKSHOPS

4. Fenced area, 370 by 265 feet, containing two small buildings (possibly communications).
5. Hull fabrication building, 360 by 350 feet, with a one-story workshop 350 by 30 feet on the northwest side. Two rail tracks enter.
6. Plating shop, 275 by 95 feet.
7. Pattern shop, 530 by 110 feet.
8. Hull fabrication building and mold loft, 530 by 210 feet, with one through rail track. Bridge crane along west end of building, 560 by 100 feet.
9. Two machine shops, 390 by 170 feet, and 250 by 190 feet.
10. Hospital, 170 by 65 feet.
11. Messhall, 230 by 175 feet.
12. Electric and plating shops, T-shaped, 300 by 150 feet, and 250 by 240 feet. One rail track enters.
13. Foundry, 450 by 130 feet, with addition 265 by 55 feet on west side. Two rail tracks enter.
14. Machine shop, 425 by 340 feet. Two rail tracks enter.
15. Workshop, 190 by 125 feet overall.
16. Boilerhouse, 210 by 170 feet.
17. Machine shop, 290 by 260 feet overall. Two rail tracks enter.
18. Machine shop, 250 by 120 feet.
19. Condenser building (for adjacent boilerhouse), 170 by 55 feet, with two condenser units.
20. Forge, T-shaped, 220 by 150 feet, and 210 by 130 feet. One rail track enters.
21. Probable engine parts building, 320 by 75 feet. One rail track passes through attached shed.
22. Lumber processing building, 390 by 95 feet overall.
23. Sawmill, 140 by 30 feet.
24. Dry kiln, 150 by 125 feet overall.

D. SHIPBUILDING

25. Air compressor building, 150 by 75 feet, with attached building 210 by 30 feet.
26. Covered shipbuilding docks, 615 by 450 feet and 75 feet high, with one-story workshop 425 by 30 feet on southwest side. Probably contains three graving-type docks, each approximately 435 feet long and [redacted] feet deep. Each of the three doorways is approximately 80 feet wide. One rail track enters. 25X1D 25X1D
27. Covered shipbuilding docks, 825 by 425 feet and [redacted] feet high, with one-story workshops measuring 425 by 30 feet and 210 by 30 feet on northwest and southwest sides. Probably contains four graving-type docks, each approximately 540 feet long and [redacted] feet deep. Two rail tracks enter. 25X1D
28. Covered shipbuilding docks, 975 by 265 feet and 100 feet high, with one-story workshops, measuring 275 by 30 feet, and 240 by 30 feet on northwest and southwest sides. Contains two graving-type docks, each approximately 710 feet long and [redacted] deep. Each of the two doorways is 65 feet wide. Two rail tracks enter. 25X1D
29. Launching basin, approximately 1,325 feet long by 425-935 feet wide. Basin contains the following vessels and equipment: one possible SHCH-IV class submarine, 200 feet long by 20 foot beam; one railroad ferry, 310 feet long by 65 foot beam; six lift vessels, each 150 by 30 feet; and two groups of ship transporting pontoons, each 65 by 20 feet.
30. Deep section of launching basin, approximately 1,200 feet long by 130-230 feet wide (excavations for probable enlargement under way).
31. Watertight gate, caisson type, 85 feet long.
32. Pump house, 190 by 55 feet, for filling launching basin.

E. FILTRATION

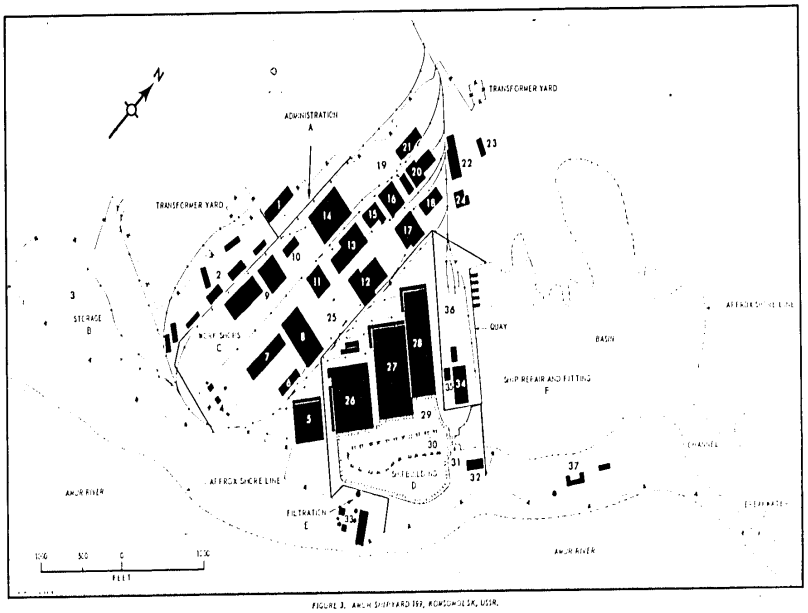


FIGURE 3. AMUR SHIPYARD [redacted], KOMSOMOLSK, USSR.

33. Water filtration area, probably to supply ships and plant boiler-house. Contains the following facilities: filtration beds, 300 by 150 feet overall; four water tanks, three with 30-foot diameter and one with 40-foot diameter; two buildings, each 85 feet square; and three smaller buildings.

F. SHIP REPAIR AND FITTING

34. Workshop, 340 by 140 feet.
35. Bunker, 95 by 80 feet.
36. Storage area, contains one storage building 140 by 60 feet, plus nine small storage-type buildings and quantities of unidentified material stored in the open. Area is served by four dead-end rail spurs, three 580 feet long, and one 1,400 feet long.
37. Port administration area, contains the following: U-shaped administrative building, 120 by 30 feet, with two wings each 85 by 30 feet; probable POL tank, 55 feet in diameter; storage building, 130 by 40 feet; and eight other small buildings.

Quay, 800 feet long, served by one rail spur. One jib crane along edge of quay, probably on rails. Five finger piers, each 100 by 10 feet.

Basin, approximately 2,700 by 1,400 feet.

Channel, from basin to Amur River, approximately 830 feet long by 265 feet wide.

Breakwater, approximately 1,950 feet long by 130 feet wide. Probably stone and earthen mixture, faced with stone.

PIC/JR-1001/61

REFERENCES

PHOTOGRAPHY

25X1C

25X1D [redacted]

MAPS or CHARTS

ACIC. Air Target Chart, Series 25, Sheet 0204-9998-0-25A, (Komsomolsk) 1st ed, Dec 53, 1:25,000 (S)

ACIC. Air Target Chart, Series 100, Sheet 0204-9998-100A, (Komsomolsk), 2d ed, Dec 53, 1:100,000 (S)

DOCUMENTS

CIA. CIA/RR 43, Amur Shipyard No 199 in Komsomolsk, 22 Sep 54 (S)

ARMY, FEAF. Special Report No 78, Text Supplement, Far East Town Plan Series, Komsomolsk, 15 Dec 54 (C)

NAVY. ONI 46-62, Shipyards of the USSR, Mar 55 (S)